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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,289	07/08/2003	Kuan-Hua Chen	ACMP0083USA	1288
27765	7590	08/21/2006	EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			PHAM, TUAN	
P.O. BOX 506			ART UNIT	
MERRIFIELD, VA 22116			PAPER NUMBER	
			2618	

DATE MAILED: 08/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	10/604,289		CHEN ET AL.	
	Examiner	Art Unit		
	TUAN A. PHAM	2618		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 and 13-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-2, 4-13, and 15-20 is/are rejected.
- 7) ☒ Claim(s) 3 and 14 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Applicant's remark, filed on 06/16/2006, with respect to the rejection(s) of claim(s) 1-20 under 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Wycherley et al. (U.S. Pub. No.: 2002/0037738).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2618

3. Claims 1, 4-7, 9-10, 11, 15-17, and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christian Lindholm UK Patent Application (GB 2355126, hereinafter, "Lindholm") in view of Wycherley et al. (U.S. Pub. No.: 2002/0037738, hereinafter, "Wycherley").

Regarding claims 1 and 11, Lindholm teaches a method and a cellular phone comprising (see figure 1):

a housing (see figures 3&4, front cover 21, 22);

providing an ID module on the cover for identifying the cover (see figure 10, identification unit 20);

a cover detachably installed on the housing, the cover containing an ID module for identifying the cover (see figures 2, 3, 4, 10, the cover 21 is included a ID unit 20 for installing on body of mobile phone 1, page 8);

a transceiver (read on transmitter/receiver circuit 19 and processor 18) for controlling operation of the cellular phone, the transceiver containing a detection port for communicating with the ID module of the cover and determining identification of the cover (see figures 2&10, processor 18, ID unit 20, ports 23&25, page 8);

a memory electrically connected to the transceiver (see figures 2&11, memory 33, pages 11-12).

It should be noticed that Lindholm fails to teach storing a database in memory, the database containing multiple sets of operation parameters corresponding to different covers of the cellular phone, searching the database to locate the set of operation parameters corresponding to the identified cover, and operating the cellular phone with

the located set of operation parameters. However, Wycherley teaches storing a database in memory (see figure 2, the mobile phone 2 should have a memory for storing the data such as pre-stored catalogue), the database containing multiple sets of operation parameters corresponding to different covers of the cellular phone (the memory is pre-stored catalogue of internal configuration corresponding to different covers, [0040, 0043]), searching the database to locate the set of operation parameters corresponding to the identified cover, and operating the cellular phone with the located set of operation parameters (it is obvious that when the cover is attached to the phone, it is automatically searching in the memory with pre-stored catalogue of internal configuration corresponding to different covers, [0040, 0043]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Wycherley into view of Lindholm in order to replace the new cover without buying a new phone.

Regarding claims 4 and 15, Wycherley further teaches the memory to store parameter providing user interface attributes to the transceiver according to the identification of the cover (the memory is pre-stored catalogue of internal configuration corresponding to different covers such as sound or graphics, [0040, 0043]).

Regarding claims 5 and 16, Lindholm further teaches database contains a keypad-mapping configuration corresponding to each cover (see figures 5&6, page 8).

Regarding claims 6 and 17, Wycherley further teaches a set of sound filed corresponding to each cover (see col.1, [0009]).

Regarding claim 7, Wycherley further teaches graphical images corresponding to each cover (see col.1, [0009]).

Regarding claims 9 and 19, Wycherley further teaches the ID module of the cover contains a unique resistance value for identifying the cover, and the transceiver measures the resistance for determining the identification of the cover (see col.5, claim 8).

Regarding claims 10 and 20, Lindholm further teaches the detection port of the transceiver is capable of communicating with the ID module of the cover in parallel for determining the identification of the cover (see figure 10, the connector 25 of cover with ID unit 20 is parallel with connector 23 of the body of the mobile phone).

4. **Claims 2 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christian Lindholm UK Patent Application (GB 2355126, hereinafter, "Lindholm") in view of Wycherley et al. (U.S. Pub. No.: 2002/0037738, hereinafter, "Wycherley") as applied to claims 1 and 11 above, and further in view of Nordwall (U.S. Patent No.: 6,097,943).**

Regarding claims 2 and 13, Lindholm and Wycherley, in combination, fails to teach providing Finite Impulse Response (FIR) filter coefficients to the transceiver for improving acoustics of the cellular phone. However, Nordwall teaches such features (see figure 4, memory 63, col.5-6, ln.49-67, 1-27).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Nordwall into view of Lindholm and Wycherley in order to reduce the echo in the mobile phone.

5. Claims 8 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christian Lindholm UK Patent Application (GB 2355126, hereinafter, "Lindholm") in view of Wycherley et al. (U.S. Pub. No.: 2002/0037738, hereinafter, "Wycherley") as applied to claims 1 and 11 above, and further in view of Nielsen (U.S. Pub. No.: 2005/0090280).

Regarding claims 8 and 18, Lindholm and Wycherley, in combination, fails to teach LED. However, in an analogous art, Nielsen teaches such features (see col.6, [0068]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Nielsen into view of Lindholm and Wycherley in order to display the illumination effect to the user when the cover is partly transparent as suggested by Nielsen at column 5, [0068]).

Allowable Subject Matter

6. Claims 3 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

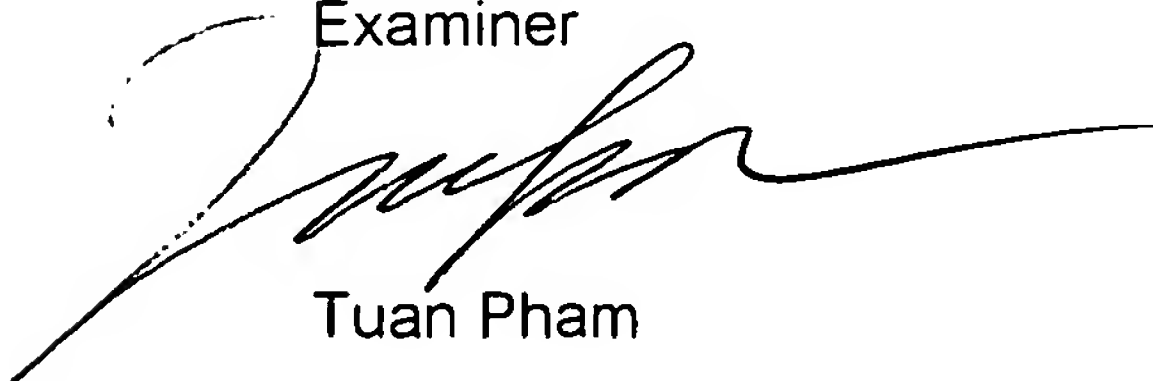
Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit 2618
August 16, 2006
Examiner



Tuan Pham

Supervisory Patent Examiner
Technology Center 2600



Matthew Anderson